# STAIN TECHNOLOGY

## A JOURNAL FOR MICROTECHNIC

VOLUME 11

1936

Published by the

COMMISSION ON STANDARDIZATION OF BIOLOGICAL STAINS

GENEVA, N. Y., U. S. A.

Printed in the U. S. A.

# CONTENTS

## No. 1, January, 1936


An Enlargement of Stain Technology. J. A. de Tomasi ..... 1
Stains Recently Certified ..... 2
Suggested Counterstains for Davenport Reduced Silver Preparations of Peripheral Nerves. J. O. Foley ..... 3
Lacto-phenol Preparations. W. E. Maneval ..... 9
Comparative Study of Dehydration. Thelma T. Baird ..... 13
Histological Applications of Tannic Acid and Ferric Chloride. H. T. Northen ..... 23
Notes on Technic
The Violet Agar Reaction as a Differential Characteristic of the *Micrococcus catarrhalis* Group. G. H. Chapman ..... 25
A Means of Eliminating Wrinkles in Sections Prepared by the Paraffin Method. R. W. Cumley ..... 26
Laboratory Hints from the Literature
Books ..... 27
The Microscope and Other Apparatus ..... 27
Microtechnic in General ..... 29
Animal Microtechnic ..... 30
Plant Microtechnic ..... 35
Microörganisms ..... 36


## No. 2, April, 1936


Polarized Light Technic. A Comparison with the Marchi Method. H. E. Setterfield and T. T. Baird ..... 41
A New Methylene Blue Technic for Permanent Preparations. Elbert T. Cole ..... 45
An Improvement in Staining Technic for Protozoa. David L. Sargent ..... 49
The Physical Chemistry of Silver Staining. Leo Zon ..... 53
Notes on Technic
Staining with Safranin and Fast Green FCF. John Adam Moore ..... 69
A New Procedure for the Feulgen Reaction; A Preliminary Note. J. A. de Tomasi ..... 70
Present Members of the Commission on Standardization of Biological Stains ..... 71
Laboratory Hints from the Literature
Book Reviews ..... 73
The Microscope and Other Apparatus ..... 73
Photomicrography ..... 74
Dyes and Microtechnic in General ..... 75
Animal Microtechnic ..... 77
Plant Microtechnic ..... 84
Microörganisms ..... 85
Stains Recently Certified ..... 88


## No. 3, July, 1936


A Rapid Celloidin Method for the Rotary Microtome. G. L. Walls ..... 89
Microtome Knife Sharpeners Operating on the Abrasive-ground Glass Principle. Fred M. Uber ..... 93
A Modified Wright's Method for Staining Blood Smears. W. N. Steil ..... 99
The Anilin Blue Collagen Stain. F. B. Mallory ..... 101
Two Microtechnical Devices. L. E. Beaton ..... 103
A Technic for Clearing Large Insects. Paul Stapp and Russell W. Cumley ..... 105
Possible Uses of Dioxan in Botanical Microtechnic. Frank P. McWhorter and Elliot Weier ..... 107
A New Staining Technic for Perithecia of the Erysipaceae. Gordon D. Alcorn and Claire L. Worley ..... 119

Notes on Technic
A Dioxan Technic. C. E. McClung ... 121
The Reflecting Prism in Microscopy. D. B. O. Savile ... 122
A Simplification of the Paraffin Embedding Process. Harris P. Mosher and E. C. Adams ... 122
A Word of Caution Concerning Dioxan. T. T. Baird ... 122
Stains Recently Certified ... 124
Laboratory Hints from the Literature
Microscope and Other Apparatus ... 125
Photomicrography ... 125
Microtechnic in General ... 126
Dyes and Their Biological Uses ... 127
Animal Microtechnic ... 129
Plant Microtechnic ... 134
Microörganisms ... 134

No. 4, October, 1936

Improving the Technic of the Feulgen Stain. J. A. de Tomasi ... 137
Microscopic Slides of Cat Testis. Thomas H. Morton ... 145
Motor End-plates. J. D. Combs ... 147
A Stable, High-contrast Mordant for Hematoxylin Staining. A. G. Lang ... 149
Pinacyanol as a Supra-vital Mitochondrial Stain for Blood. Duncan C. Hetherington ... 153
A Colloidal Silver Method for Nerve Cells and Processes, Neuroglia and Microglia. Ruth Stage ... 155
Simple Aids to Microscope Illumination. D. B. O. Savile ... 161
Notes on Technic
A Handy Slide and Cover Slip Rack. K. W. Cooper ... 165
The Cellosolve-Nitrocellulose Technic. Fred A. Mettler, Cecilia C. Mettler and F. C. Strong ... 165
The Dioxan Paraffin Technic. Fred A. Mettler, F. C. Strong and Cecilia C. Mettler ... 166
Alum Cochineal-hematoxylin Stain. Bruce D. Reynolds ... 166
The Use of Acetates as a Means of Removing Air Bubbles from Lacto-phenol Mounts of Fungi. R. H. Tschudy ... 167
Stains Recently Certified ... 168
Laboratory Hints from the Literature
Book Reviews ... 169
Microtechnic in General ... 169
Dyes and Their Biological Uses ... 169
Animal Microtechnic ... 170
Microörganisms ... 171
Index to Volume 11 ... 175